

Technical Note

TorqLOC™ with Flange

The SEW TorqLOC™ System can be used with or without a mounting flange. When used with a flange, the gear reducer must contain a TorqLOC™ **symmetrical** shaft for ample clearance to avoid interference between the split ring and the flange.

The purpose of split ring and bronze bushing is to eliminate wobble by centering the user's solid shaft inside the bore of the TorqLOC. The split ring tightly clamps the bronze bushing around the customer's shaft, eliminating wobble between the shaft and bushing. Likewise, the bushing acts as a spacer, eliminating the clearance and wobble that would otherwise occur between the user's shaft and the bore of the TorqLOC. See Figure 1.

However, in some applications, the split ring and bronze bushing can be totally eliminated. If either of the following conditions is present, the split ring and bronze bushing are optional.

- There is a guide bearing at the end of the user's solid shaft. An example is a mixing tank that contains an agitator shaft with a bottom guide bearing. If the split and bushing are still used, ensure that the ring is not placed too high, creating a gap between the flange and mounting surface (see Figure 2)
- There is little or no radial overhung load.

Like the SEW shrink disc, the TorqLOC™ may be used in applications with axial loads. The capacity of the axial load depends upon the existing radial forces – contact SEW Regional Engineering for information. Also, for important information on flange mounting, such as bearing alignment (concentricity) and tolerances, reference Technical Note **GM-020**.

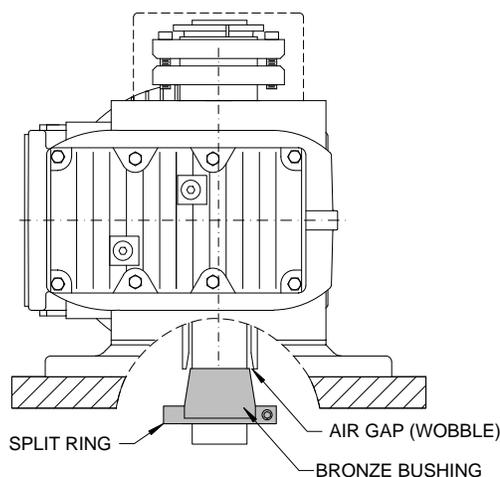


FIGURE 1: Ring too low

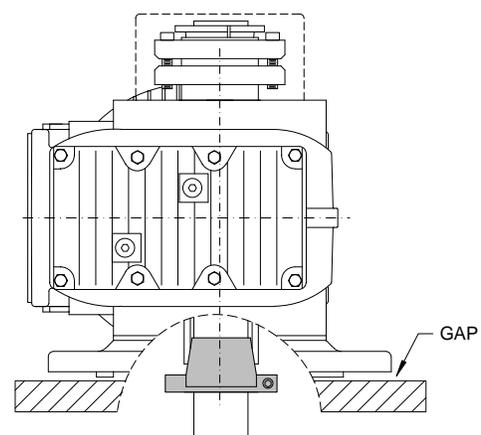
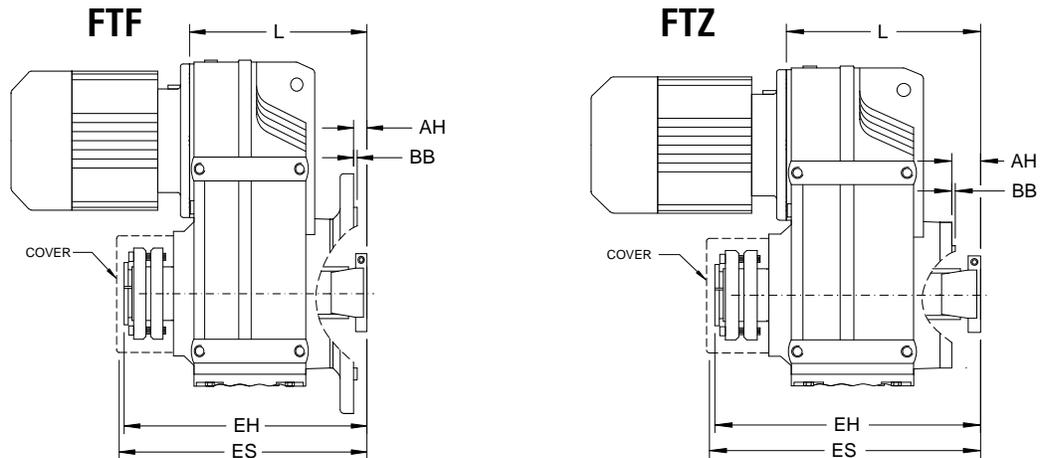


FIGURE 2: Ring too high

Technical Note

F-Series Snuggler



FTF Dimensions (inch) – Symmetrical Shaft

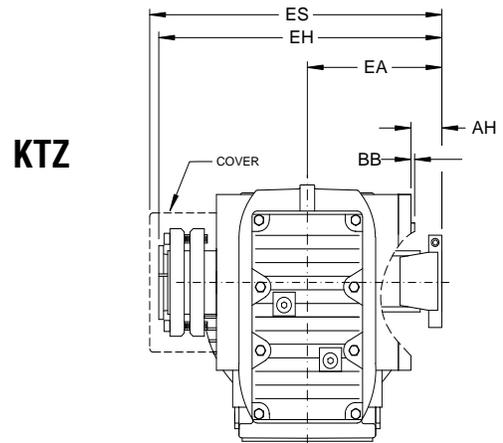
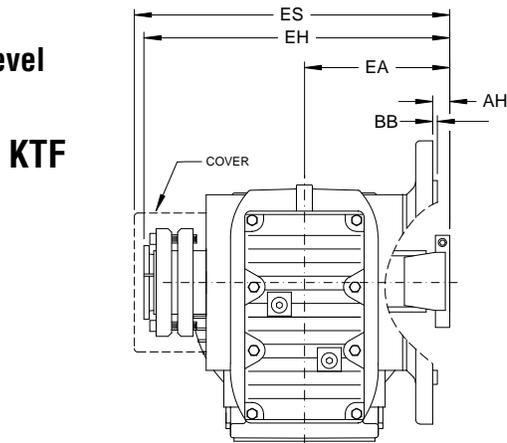
	AH	BB	EH	ES	L
FTF37	0.56 ^{-0.078} / _{+0.039}	0.14	7.65 ^{-0.157} / _{+0.078}	7.98	5.93
FTF47	0.62 ^{-0.078} / _{+0.039}	0.14	9.15 ^{-0.157} / _{+0.078}	9.34	6.96
FTF57	1.13 ^{-0.078} / _{+0.039}	0.16`	10.39 ^{-0.157} / _{+0.078}	10.58	8.08
FTF67	1.15 ^{-0.078} / _{+0.039}	0.16	10.90 ^{-0.157} / _{+0.078}	11.11	8.53
FTF77	1.22 ^{-0.078} / _{+0.039}	0.16	13.26 ^{-0.157} / _{+0.078}	13.61	10.24
FTF87	2.14 ^{-0.098} / _{+0.039}	0.20	15.29 ^{-0.196} / _{+0.078}	15.52	12.14
FTF97	1.58 ^{-0.098} / _{+0.039}	0.20	17.81 ^{-0.196} / _{+0.078}	18.00	14.00
FTF107	1.73 ^{-0.098} / _{+0.039}	0.20	20.08 ^{-0.196} / _{+0.078}	20.31	15.63
FTF127	2.17 ^{-0.098} / _{+0.039}	0.20	23.90 ^{-0.196} / _{+0.078}	24.21	18.86
FTF157	2.28 ^{-0.098} / _{+0.039}	0.24	28.39 ^{-0.196} / _{+0.078}	28.94	22.80

FTZ Dimensions (inch) – Symmetrical Shaft

FTZ37	1.15 ^{-0.078} / _{+0.039}	0.12	7.65 ^{-0.157} / _{+0.078}	7.98	5.93
FTZ47	1.29 ^{-0.078} / _{+0.039}	0.12	9.15 ^{-0.157} / _{+0.078}	9.34	6.96
FTZ57	1.70 ^{-0.078} / _{+0.039}	0.14	10.39 ^{-0.157} / _{+0.078}	10.58	8.08
FTZ67	1.72 ^{-0.078} / _{+0.039}	0.14	10.90 ^{-0.157} / _{+0.078}	11.11	8.53
FTZ77	2.28 ^{-0.078} / _{+0.039}	0.14	13.26 ^{-0.157} / _{+0.078}	13.61	10.24
FTZ87	2.89 ^{-0.098} / _{+0.039}	0.16	15.29 ^{-0.196} / _{+0.078}	15.52	12.14
FTZ97	2.66 ^{-0.098} / _{+0.039}	0.16	17.81 ^{-0.196} / _{+0.078}	18.00	14.00
FTF107	3.66 ^{-0.098} / _{+0.039}	0.20	20.08 ^{-0.196} / _{+0.078}	20.31	15.63
FTF127	4.17 ^{-0.098} / _{+0.039}	0.20	23.90 ^{-0.196} / _{+0.078}	24.21	18.86
FTF157	5.20 ^{-0.098} / _{+0.039}	0.24	28.39 ^{-0.196} / _{+0.078}	28.94	22.80

Technical Note

K-Series Helical-Bevel



KTF Dimensions (inch) – Symmetrical Shaft

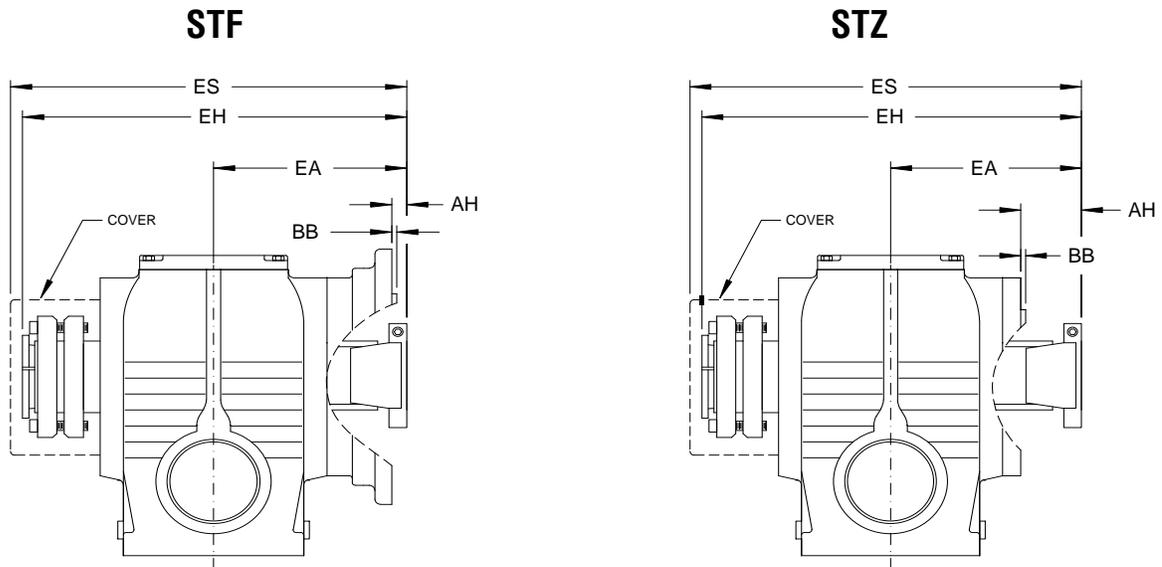
	AH	BB	EA	EH	ES
KTF37	0.66 ^{-0.078} / _{+0.039}	0.14	3.96	7.65 ^{-0.157} / _{+0.078}	7.98
KTF47	0.74 ^{-0.078} / _{+0.039}	0.14	4.67	9.15 ^{-0.157} / _{+0.078}	9.34
KTF57	1.13 ^{-0.078} / _{+0.039}	0.16	5.32	10.39 ^{-0.157} / _{+0.078}	10.58
KTF67	1.15 ^{-0.078} / _{+0.039}	0.16	5.60	10.90 ^{-0.157} / _{+0.078}	11.11
KTF77	1.19 ^{-0.078} / _{+0.039}	0.16	6.78	13.26 ^{-0.157} / _{+0.078}	13.61
KTF87	2.14 ^{-0.098} / _{+0.039}	0.20	8.05	15.29 ^{-0.196} / _{+0.078}	15.52
KTF97	1.58 ^{-0.098} / _{+0.039}	0.20	9.12	17.81 ^{-0.196} / _{+0.078}	18.00
KTF107	1.73 ^{-0.098} / _{+0.039}	0.20	10.24	20.08 ^{-0.196} / _{+0.078}	20.31
KTF127	2.17 ^{-0.098} / _{+0.039}	0.20	12.24	23.90 ^{-0.196} / _{+0.078}	24.21
KTF157	2.28 ^{-0.098} / _{+0.039}	0.24	14.49	28.39 ^{-0.196} / _{+0.078}	29.11

KTZ Dimensions (inch) – Symmetrical Shaft

KTZ37	1.25 ^{-0.078} / _{+0.039}	0.12	3.96	7.65 ^{-0.157} / _{+0.078}	7.98
KTZ47	1.41 ^{-0.078} / _{+0.039}	0.12	4.67	9.15 ^{-0.157} / _{+0.078}	9.34
KTZ57	1.70 ^{-0.078} / _{+0.039}	0.14	5.32	10.39 ^{-0.157} / _{+0.078}	10.58
KTZ67	1.72 ^{-0.078} / _{+0.039}	0.14	5.60	10.90 ^{-0.157} / _{+0.078}	11.11
KTZ77	2.25 ^{-0.078} / _{+0.039}	0.14	6.78	13.26 ^{-0.157} / _{+0.078}	13.61
KTZ87	2.89 ^{-0.098} / _{+0.039}	0.16	8.05	15.29 ^{-0.196} / _{+0.078}	15.52
KTZ97	2.66 ^{-0.098} / _{+0.039}	0.16	9.12	17.81 ^{-0.196} / _{+0.078}	18.00
KTZ107	3.66 ^{-0.098} / _{+0.039}	0.16	10.24	20.08 ^{-0.196} / _{+0.078}	20.31
KTZ127	4.17 ^{-0.098} / _{+0.039}	0.20	12.24	23.90 ^{-0.196} / _{+0.078}	24.21
KTZ157	5.20 ^{-0.098} / _{+0.039}	0.20	14.49	28.39 ^{-0.196} / _{+0.078}	29.11

Technical Note

S-Series Helical-Worm



STF Dimensions (inch) – Symmetrical Shaft

	AH	BB	EA	EH	ES
STF37	0.85 ^{-0.078} / _{+0.039}	0.12 * 0.14 **	3.81	7.34 ^{-0.157} / _{+0.078}	7.55
STF47	0.66 ^{-0.078} / _{+0.039}	0.14	3.96	7.65 ^{-0.157} / _{+0.078}	7.98
STF57	0.74 ^{-0.078} / _{+0.039}	0.14	4.67	9.15 ^{-0.157} / _{+0.078}	9.34
STF67	0.38 ^{-0.078} / _{+0.039}	0.14	5.36	10.43 ^{-0.157} / _{+0.078}	10.64
STF77	0.93 ^{-0.078} / _{+0.039}	0.16	6.86	13.42 ^{-0.157} / _{+0.078}	13.69
STF87	0.91 ^{-0.098} / _{+0.039}	0.20	7.90	15.45 ^{-0.196} / _{+0.078}	15.76
STF97	0.62 ^{-0.098} / _{+0.039}	0.20	8.69	17.02 ^{-0.196} / _{+0.078}	17.33

STZ Dimensions (inch) – Symmetrical Shaft

STZ47	1.27 ^{-0.078} / _{+0.039}	0.12	3.96	7.65 ^{-0.157} / _{+0.078}	7.98
STZ57	1.41 ^{-0.078} / _{+0.039}	0.12	4.67	9.15 ^{-0.157} / _{+0.078}	9.34
STZ67	1.68 ^{-0.078} / _{+0.039}	0.14	5.36	10.43 ^{-0.157} / _{+0.078}	10.64
STZ77	2.15 ^{-0.078} / _{+0.039}	0.16	6.86	13.42 ^{-0.157} / _{+0.078}	13.69
STZ87	2.25 ^{-0.098} / _{+0.039}	0.20	7.90	15.45 ^{-0.196} / _{+0.078}	15.76
STZ97	2.25 ^{-0.098} / _{+0.039}	0.20	8.69	17.02 ^{-0.196} / _{+0.078}	17.33

* Flange diameter = 120mm

** Flange diameter = 160mm